

EXTRA1 PLUS

POLYWARM® COATED CALORIFIERS WITH 1 EXTRACTABLE FINNED COPPER HEAT EXCHANGER



APPLICATION

Production and storage of domestic hot water.

MATERIAL

Mild steel Polywarm® coated (Attestation ACS - SSICA - DVGW - W270 - UBA - WRAS)

HEAT EXCHANGER

1 copper finned and tinned heat exchanger.

INSULATION

- HARD: High thermal insulation with ecological polyurethane hard foam.
- SOFT: NOFIRE® polyester fleece 100% made of recyclable material, with high thermal insulation. Fire resistance class B-s2d0 according to EN 13501.

Grey PVC external lining complete with top and flange cover

CATHODE PROTECTION

Magnesium anode. Models > 1500 n° 2 magnesium anode.

DRAIN

External confluence through drain connection.

Models > 1000 external confluence through drain pipe.

GASKET- FLANGE PLATE

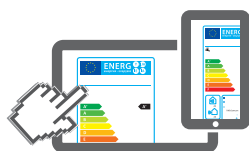
Silicone gaskets suitable for alimentary use for max temperature up to 200°C. Mild steel inspection flange plate with Polywarm®

WARRANTY

5 years - See general sales conditions and warranty

ACCESSORIES AND SPARE PARTS

See Accessories section for the entire list.



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On line ErP label tool

EXTRA 1 PLUS WRB

Model	HARD FOAM insulation	HEAT EXCHANGER SURFACE	ENERGY EFFICIENCY CLASS
	Art. Nr.	[m²]	
200	3074162352302	0,76	C
300	3074162352303	0,94	C
500	3074162352304	1,58	C
800	3074162352305	2,63	C
1000	3074162352306	3,17	C
1500	3074162352307	4,54	C
2000	3074162352308	5,26	C

EXTRA 1 PLUS WRC

Model	DISMOUNTABLE SOFT FLEECE insulation	HEAT EXCHANGER SURFACE	ENERGY EFFICIENCY CLASS
	Art. Nr.	[m²]	
500	3072162352334	1,58	C
800	3072162352335	2,63	C
1000	3072162352336	3,17	C
1500	3072162352337	4,54	C
2000	3072162352338	5,26	C
2500	3072162352313	6,34	
3000	3072162352309	6,34	
4000	3072162352310	6,34	
5000	3072162352312	6,34	

ELECTRICAL IMMERSION HEATERS

Mod.	Volume of water heated by the electrical immersion [lt]	MONOPHASE			THREEPHASE				
		1,5 kW	2 kW	3 kW	4 kW	5 kW	6 kW	9 kW	12 kW
		52400000000051	52400000000052	52400000000053	52400000000047	52400000000048	52400000000049	52400000000050	52400000000031
		Ignition time from 10 °C to 45 °C with immersion heaters [min]							
200	49	87	65	44	//	//	//	//	//
300	76	136	102	68	//	//	//	//	//
500	127	228	171	114	//	//	//	//	//
800	178	318	239	159	//	//	//	//	//
1000	243	436	327	218	163	131	109	73	54
1500	288	516	387	258	194	155	129	86	65
2000	443	793	595	396	297	238	198	132	99
2500	577	1033	775	517	387	310	258	172	129
3000	577	1033	775	517	387	310	258	172	129
4000	797	1428	1071	714	535	428	357	238	178
5000	1040	1864	1398	932	699	559	466	311	233

Accessories on request

"Easy Control" Electronic Display

ART. NR.	FOR MODELS
5005000310002	WRC
5005000310003	WRB



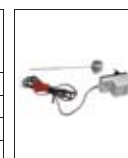
Thermometer

Art. Nr.
5032240000107
5 units box



Titanium electronic anode

Art. Nr.	Model
5200000000008	200, 300
5200000000009	500, 800
5200000000011	1000, 1500
5200000000013	2000÷5000



EXTRA1 PLUS

POLYWARM® COATED CALORIFIERS WITH 1 EXTRACTABLE FINNED COPPER HEAT EXCHANGER

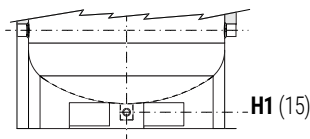
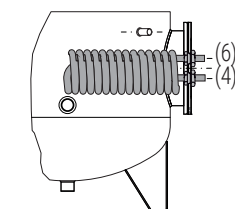
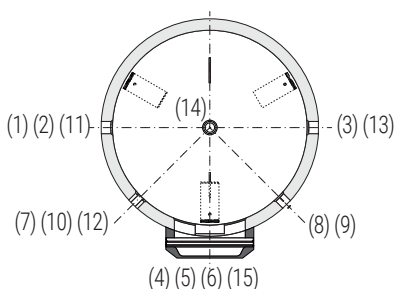
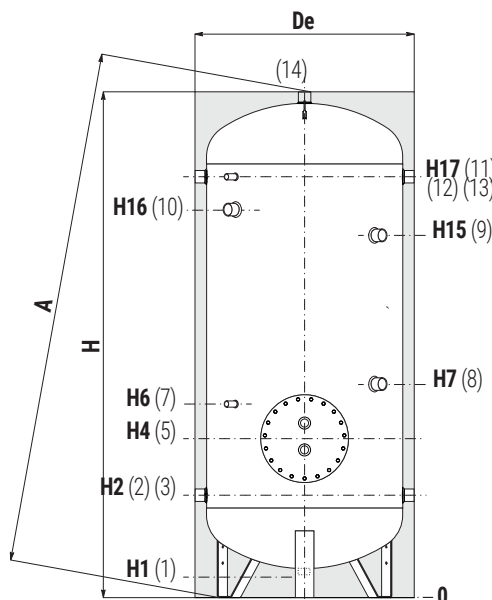
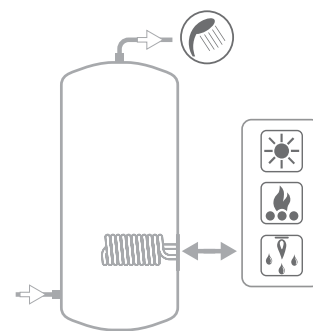
STORAGE			HEAT EXCHANGER	
Model	Pmax	Tmax	Pmax	Tmax
200 ÷ 1000	8 bar	90 °C	12 bar	110 °C
1500 ÷ 5000	6 bar			



CORDIVARI Lab
TÜV Rheinland Energie und Umwelt GmbH states that test procedures and Cordivari LAB are certified conforming to European standard EN 15332, as indicated by Ecodesign ErP Directive.



ASK ALWAYS FOR
CERTIFIED LABORATORIES
DATA RESULTS



Models from 1500 to 5000 have two grips on the bottom which allow the use of forklift when handling and drain pipe already fitted.

1	Drain 1" 1/4 Gas F For model 1000 connection 1"1/2 Gas F
2	Domestic cold water circuit inlet
3	Alternative domestic cold water circuit inlet or connection for more boilers
4	Primary circuit outlet
5	Heat exchanger flange
6	Primary circuit inlet
7	Connection for instrumentation 1/2" Gas F
8	Connection for magnesium anode 1" 1/4 Gas F
9	Connection for 2 nd anode 1"1/4 Gas F (only for models > 1500)
10	Connection for electrical immersion 1" 1/2 Gas F For models > 800 connection 2" Gas F
11- 13	Connection for recirculation or for domestic hot water
12	Connection for instrumentation 1/2" Gas F
14	Domestic hot water outlet
15	Drain 1" Gas F (only for models > 1000)

HARD FOAM INSULATION (WRB)

Model	Volume [litres]	De	H	A	H1	H2	H4	H6	H7	H15	H16	H17	5	2-3 11-13 Connections Gas F	14
[mm]															
200	191	550	1449	1550	85	325	410	520	650	//	1075	1185	Øe 300	1"1/4	1"1/4
300	292	650	1499	1634	85	350	435	545	735	//	1100	1210	Øe 300	1"1/4	1"1/4
500	500	750	1800	1950	85	375	460	570	760	//	1329	1485	Øe 300	1"1/4	1"1/4
800	791	900	2135	2317	85	405	490	600	870	//	1610	1765	Øe 300	1"1/4	1"1/4
1000	1040	1000	2221	2436	105	458	543	653	993	//	1664	1818	Øe 300	1"1/2	1"1/2
1500	1442	1100	2415	2654	109	440	525	635	1075	//	1895	2050	Øe 300	1"1/2	2"
2000	1974	1300	2492	2811	91	467	542	652	842	1952	1877	2057	Øe 300	2"	2"

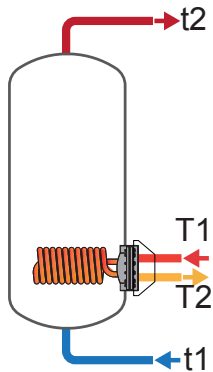
SOFT FLEECE INSULATION (WRC)

Model	Volume [litres]	De	H	A	H1	H2	H4	H6	H7	H15	H16	H17	5	2-3 11-13 Connections Gas F	14
[mm]															
500	500	870	1841	1988	101	416	501	611	801	//	1370	1526	Øe 300	1"1/4	1"1/4
800	791	970	2188	2210	113	433	518	628	898	//	1638	1793	Øe 300	1"1/4	1"1/4
1000	1040	1070	2242	2260	101	454	539	649	989	//	1660	1814	Øe 300	1"1/2	1"1/2
1500	1442	1210	2440	2485	109	440	525	635	1075	//	1895	2050	Øe 300	1"1/2	2"
2000	1974	1360	2492	2560	91	467	542	652	842	1952	1877	2057	Øe 300	2"	2"
2500	2310	1350	2311	2470	140	551	626	736	976	1816	1732	1891	Øe 300	2"	2"
3000	2916	1350	2811	2940	140	551	626	736	876	2316	2232	2391	Øe 300	2"	2"
4000	3764	1500	2875	3040	114	570	645	755	895	2315	2238	2410	Øe 300	2"	2"
5000	4978	1700	2915	3120	94	580	655	765	935	2335	2265	2420	Øe 300	2"	2"

EXTRA1PLUS - HEAT EXCHANGERS TECHNICAL DATA

Data have been calculated on following basis:

- 1) Primary circuit at T1 and proper energy source;
- 2) Production of DHW in continue way from 10 °C at t2;
- 3) DHW that can be taken in the first 10' and in the first hour from storage at 60°C, input 10°C and output 45°C;
- 4) Sanitary water according to UNI CTI 8065.



COPPER FINNED AND TINNED HEAT EXCHANGER

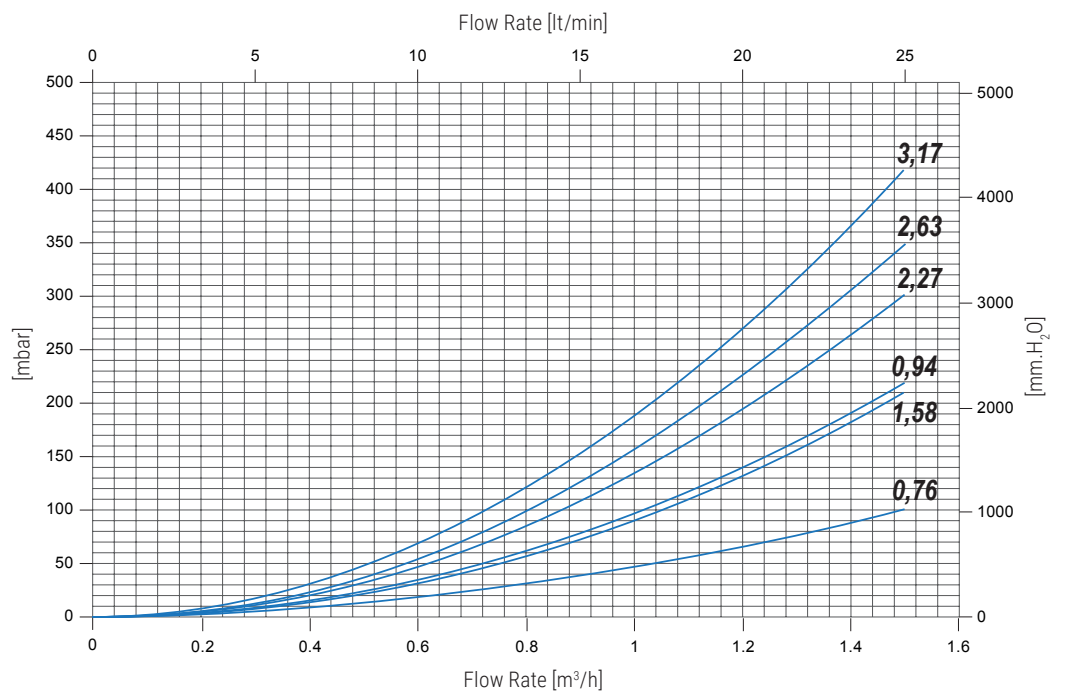
Model	Ignition time (minutes) from 10 °C to t2 and primary at T1				Maximum power exchange (kW) with primary at T1, secondary within 10-45 °C and constant use of DHW production				DHW continuous production lt/h within 10-45 °C and primary at T1			
	T1/t2				T1				T1			
	55/50	65/60	70/60	80/60	55	65	70	80	55	65	70	80
200	95	97	65	40	7	11	13,9	19	171	226	342	470
	106	107	72	45	6	10	12	17	161	262	315	427
300	119	118	79	49	8,7	14,4	17,4	24	214	353	428	586
	130	131	87	54	8,3	13,4	16,1	21	203	329	396	535
500	132	132	89	55	14,1	22,9	27,6	37,4	347	565	680	923
	150	151	103	65	13	21	25	33	321	509	606	809
800	137	138	94	59	23	36	44	56	562	900	1076	1443
	164	167	115	73	21	32	38	49	510	789	931	1222
1000	154	155	105	67	27	43	51	68	668	1062	1265	1688
	187	191	132	85	24	37	44	57	602	921	1082	1409
1500	139	140	95	59	40	65	77	104	988	1594	1910	2577
	162	164	113	72	37	57	68	90	906	1417	1678	2218
2000	168	169	115	72	46	74	88	118	1133	1820	2177	2925
	199	202	139	89	42	65	77	101	1033	1605	1895	2493
2500	163	164	112	71	55	87	104	139	1349	2150	2564	3428
	197	200	139	102	50	76	89	117	1221	1876	2206	2881
3000	214	216	147	93	55	87	104	139	1349	2150	2564	3428
	258	263	181	117	50	76	89	117	1221	1876	2206	2881
4000	274	276	187	118	55	87	104	139	1349	2150	2564	3428
	330	337	232	149	50	76	89	117	1221	1876	2206	2881
5000	361	364	247	156	55	87	104	139	1349	2150	2564	3428
	436	445	305	196	50	76	89	117	1221	1876	2206	2881

PRESSURE LOSS - COPPER FINNED AND TINNED HEAT EXCHANGER



Heat exchanger surface [m²]

200	0,76
300	0,94
500	1,58
800	2,63
1000	3,17



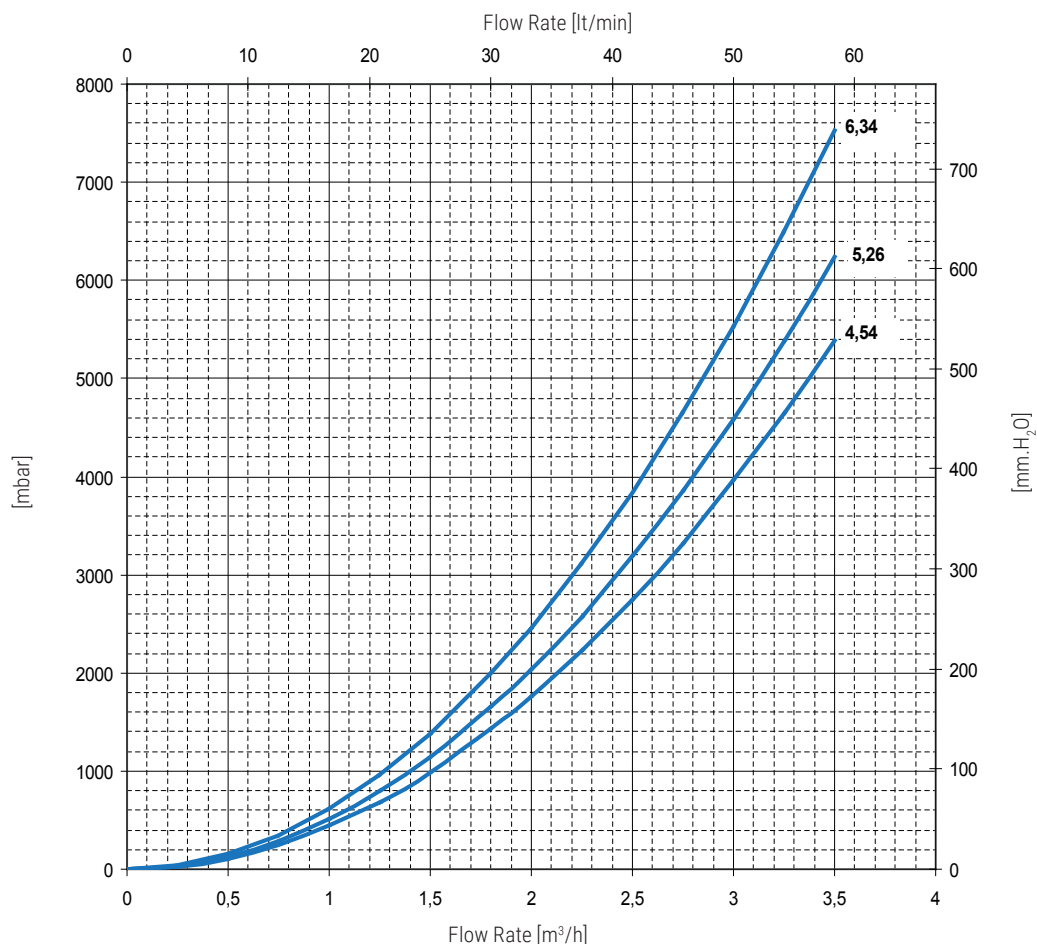
DHW produced in the first 10 minutes in lt/10' input 10 °C output 45 °C, storage at t2 and primary at T1				DHW produced in the first hour in lt/60' input 10 °C output 45 °C, storage at t2 and primary at T1				Flow rate	Exchanger pressure loss	
T1/t2				T1/t2				[m³/h]	[mm.H ₂ O]	[mbar]
55/50	65/60	70/60	80/60	55/50	65/60	70/60	80/60			
211	266	286	307	320	409	502	605	1,4	895	87,8
210	272	281	300	312	438	481	570	0,7	223	21,9
313	406	418	445	449	630	690	816	1,4	1936	189,9
312	402	413	436	440	610	664	775	0,7	484	47,5
547	706	725	765	767	1063	1155	1350	1,4	1861	182,5
543	696	712	746	746	1019	1096	1259	0,7	465	45,6
896	1153	1182	1243	1252	1723	1864	2157	1,4	3097	303,7
887	1134	1158	1207	1210	1634	1748	1980	0,7	774	75,9
1158	1486	1519	1590	1581	2158	2321	2659	1,4	3733	366,1
1147	1462	1489	1543	1528	2045	2174	2436	0,7	933	91,5
1622	2087	2140	2251	2248	3097	3349	3883	3	2878	282,2
1608	2058	2101	2191	2182	2955	3164	3596	1,5	720	70,6
2185	2799	2859	2983	2903	3952	4237	4836	3	2878	282,2
2169	2763	2812	2911	2823	3780	4012	4490	1,5	720	70,6
2496	3197	3266	3410	3350	4559	4890	5581	3	4588	449,9
2474	3151	3206	3319	3248	4339	4603	5143	1,5	1147	112,5
3189	4064	4133	4277	4044	5426	5757	6448	3	5530	542,3
3168	4018	4073	4186	3941	5207	5471	6011	1,5	1382	135,5
4002	5080	5149	5293	4856	6441	6773	7464	3	5530	542,3
3981	5034	5089	5202	4754	6222	6486	7026	1,5	1382	135,5
5193	6568	6637	6781	6047	7930	8261	8952	3	5530	542,3
5172	6523	6578	6690	5945	7711	7975	8515	1,5	1382	135,5

PRESSURE LOSS - COPPER FINNED AND TINNED HEAT EXCHANGER



Heat exchanger surface [m²]

1500	4,54
2000	5,26
2500	6,34
3000	6,34
4000	6,34
5000	6,34





Heat exchanger surface [m ²]	
200	0,76
300	0,94
500	1,58
800	2,63
1000	3,17
1500	4,54
2000	5,26
2500	6,34
3000	6,34
4000	6,34
5000	6,34

Chart for surfaces of: 0,76 m² / 0,94 m² / 1,58 m²

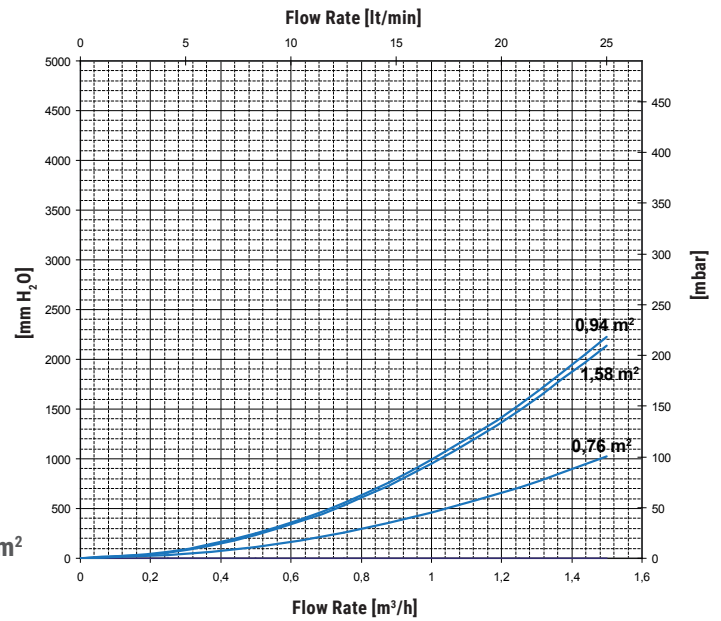


Chart for surfaces of: 2,27 m² / 2,63 m² / 3,17 m²

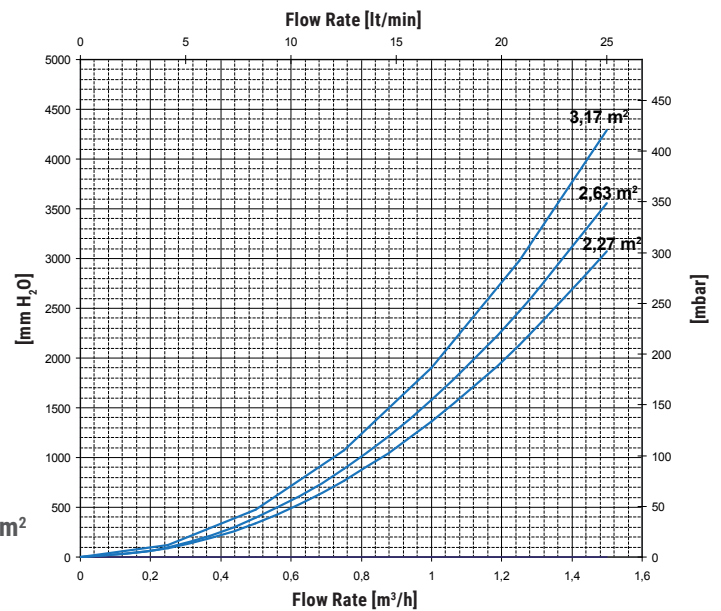
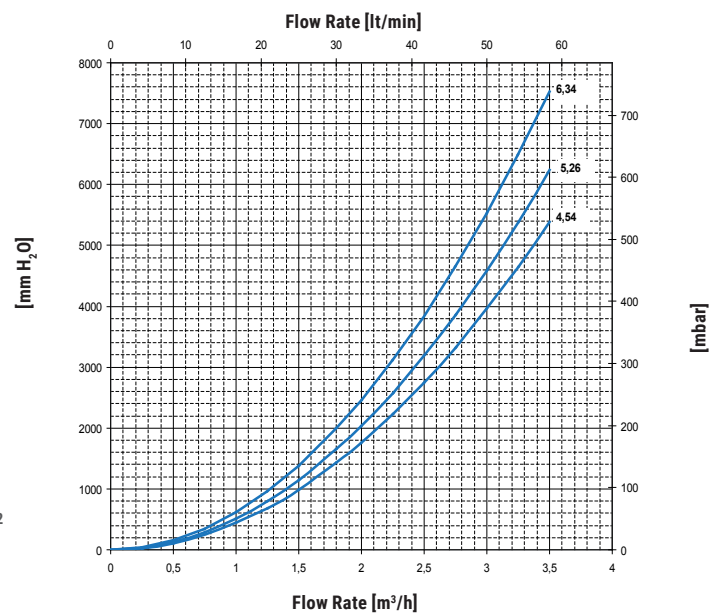
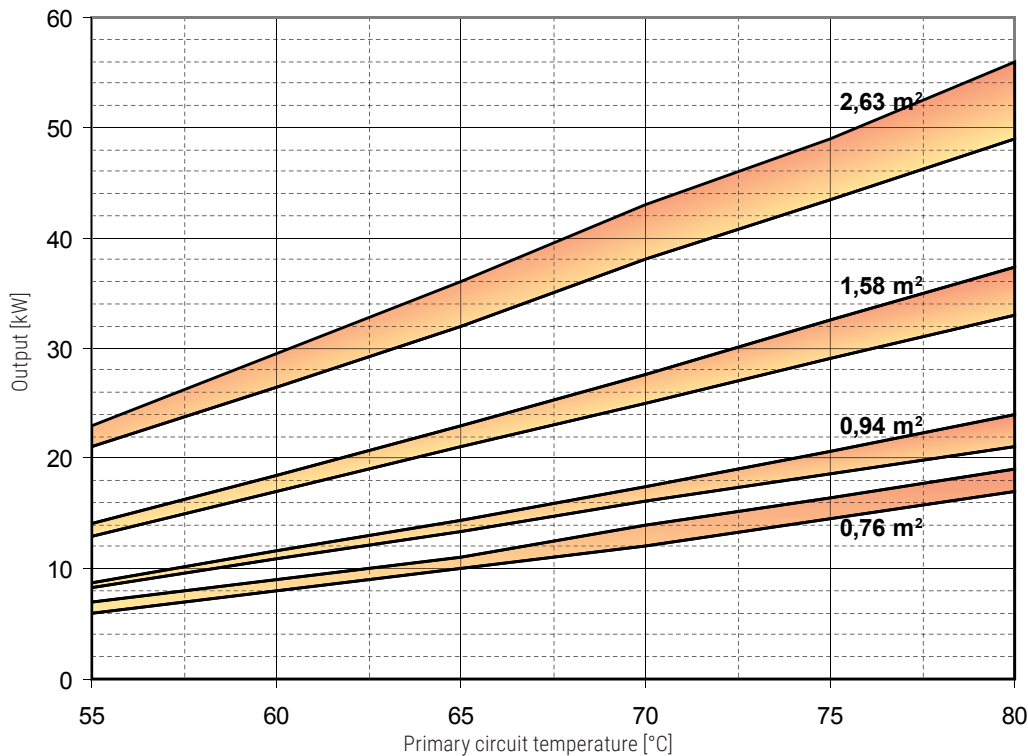


Chart for surfaces of: 4,54 m² / 5,26 m² / 6,34 m²

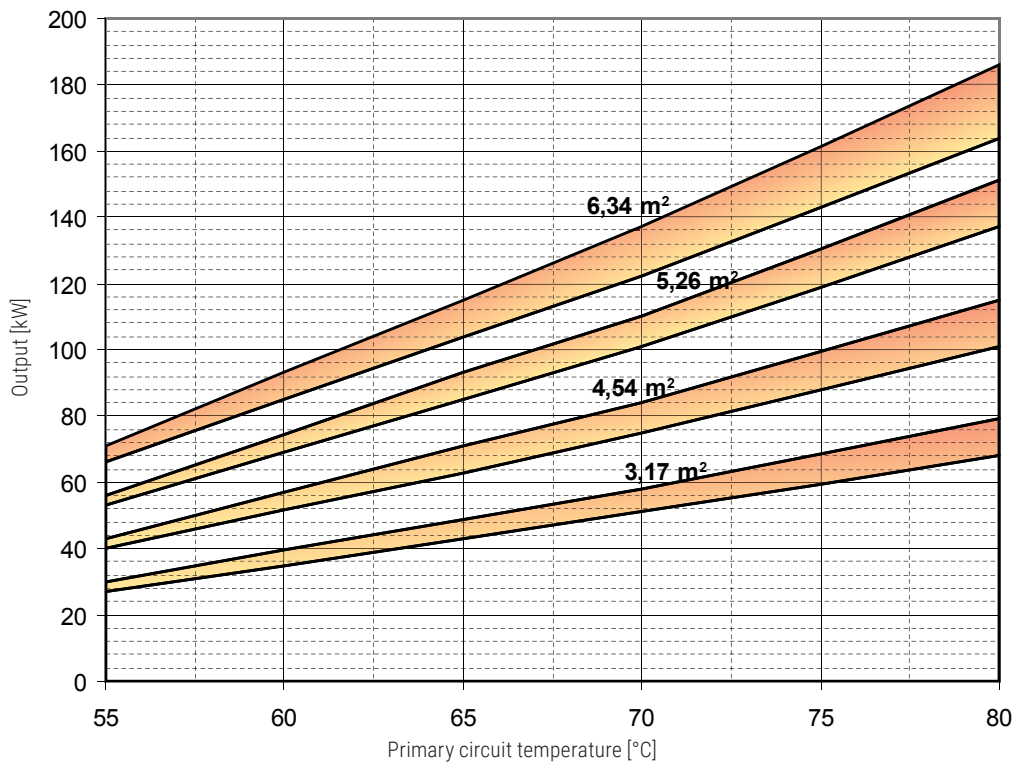


EXTRA PLUS - HEAT EXCHANGERS OUTPUT CHART

HEAT EXCHANGER OUTPUT REFERRED TO TEMPERATURE AND FLOW RATE OF PRIMARY CIRCUIT AND WITH SECONDARY AT 10/45°C AT MAXIMUM WITHDRAWAL OF PRODUCIBLE DHW (UPPER LIMIT OF THE CURVES REFERRED TO MAXIMUM PRIMARY FLOW RATE IN THE HEAT EXCHANGER, WHILE THE LOWER LIMIT IN THE CURVE REFERS TO THE MINIMUM PRIMARY FLOW RATE)



Extractable heat exchanger surface	0,76 m ²		0,94 m ²		1,58 m ²		2,63 m ²	
Flow rate [m ³ /h]	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	1,4	0,7	1,4	0,7	1,4	0,7	1,4	0,7



Extractable heat exchanger surface	3,17 m ²		4,54 m ²		5,26 m ²		6,34 m ²	
Flow rate [m ³ /h]	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	1,4	0,7	3	1,5	3	1,5	3	1,5

EXTRA-BOLLY® CALORIFIERS
BOLLYTERM® CALORIFIERS
STAINLESS STEEL CALORIFIERS
CALORIFIERS FOR HEAT PUMP
MULTIFUEL ENERGY CYLINDERS - PUFFER
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INERTIAL TANKS
WATER PRESSURE TANKS
COMPRESSED AIR RECEIVERS
ACCESSORIES AND SPARE PARTS
TECHNICAL SUPPORT